2021-22

QUALITY CONTROL TEST REPORTS

Name of the Client: *Executive Engineer, Project Division,*K.R. Nagara Zone, Bangalore..

Agency: Sri. K R Govindaraju, Contractor, Bangalore.

Name of the Work: *Construction of Oldage Homes and other Building in JP Park in* ward no.17, BBMP, Bangalore

M/s. CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Road Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited as per ISO-17025: 2005 Laboratory

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QC-ABSTRACT

Name of Work:- Construction of Oldage Homes and other Building in JP Park in ward no.17, BBMP, Bangalore

Sl No.	Item	Quantity As Per BOQ	Required No's of tests	Actual No's of tests	Tests
1	PCC 1:4:8	174.10Cum	1	1	Cement
					Sand, Aggregates
2	PCC 1:3:6	3.64Cum	1	1	Cement
					Sand, Aggregates
3	Steel	38.97Tonne	1	1	
4	M20	40.74 Cum	4	4	Concrete Cube Compressive strength
5	M30	1513 Cum	32	38	Concrete Cube Compressive strength
6	M25	25.98 Cum	3	3	Concrete Cube Compressive strength
7	M15	2.13Cum	1	1	Concrete Cube Compressive strength
8	Brick	-	1	1	

Cubes

0-5 m^3	1set
6-15 m^3	2set
16-30 m^3	3set
31-50 m^3	4 set

Add 1set for extra 50Cum

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Job No.: CQCE/BBMP/KRG/17/2020-2021 Date:01.03.2021

TEST REPORT ON CEMENT

Client : **Executive Engineer, Project** Division,RR Nagara Zone, Bangalore.
Agency : **Sri. K R Govindaraju,** Contractor, Bangalore.
Name of Work Construction of Oldage Homes and other Building in JP Park in ward no.17, BBMP,
Sample : :Cement (Birla Super 53 grade OPC)
Sample Supplied by: :AGENCY
Date of Manufacture: :January-2021
Date of Testing 27.02.2021 to 01.03.2021

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	355 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.50%	-

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Rajarajeshwari Nagar Zone

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Job No.: CQCE/BBMP/KRG/17/2020-2021 Date 01.03.2021

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Executive Engineer, Project** Division,RR Nagara Zone, Bangalore.
Agency : **Sri. K R Govindaraju,** Contractor, Bangalore.
Name of Work Construction of Oldage Homes and other Building in JP Park in ward no.17, BBMP, Bangalore

Date of Testing 01.03.2021
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	85	8.50	8.50	91.5	90-100
2.36	141	14.10	22.60	77.4	75-100
1.18	221	22.10	44.70	55.3	55-90
600 Micron	189	18.90	63.60	36.4	35-59
300 Micron	201	20.10	83.70	16.3	8-30
150 Micron	89	8.90	92.60	7.4	0-10

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Job No.: CQCE/BBMP/KRG/17/2020-2021 Date 01.03.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer, Project** Division,RR Nagara Zone, Bangalore.
Agency : **Sri. K R Govindaraju,** Contractor, Bangalore.
Name of Work Construction of Oldage Homes and other Building in JP Park in ward no.17, BBMP, Bangalore
Date of Testing 01.03.2021
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	198	1.32	1.32	98.68	95-100
20	8452	56.35	57.67	42.33	30-70
10	3156	21.04	78.71	21.29	10-35
4.75	2545	16.97	95.67	4.33	0-5

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Job No.: CQCE/BBMP/KRG/17/2020-2021 Date 01.03.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer, Project** Division,RR Nagara Zone, Bangalore.

Agency : **Sri. K R Govindaraju,** Contractor, Bangalore.

Name of Work Construction of Oldage Homes and other Building in JP Park in ward no.17, BBMP, Bangalore

Date of Testing 01.03.2021

IS Code :IS 383:2016

:IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	201	4.0	4.0	96.0	95-100
10	2895	57.9	61.9	38.1	25-55
4.75	1589	31.8	93.7	6.3	0-10

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Job No.: CQCE/BBMP/KRG/17/2020-2021 Date: 05.03.2021

TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

Client : **Executive Engineer, Project** Division,RR Nagara Zone, Bangalore.

Agency : **Sri. K R Govindaraju,** Contractor, Bangalore.

Name of Work Construction of Oldage Homes and other Building in JP Park in ward no.17, BBMP, Bangalore

Reference to BIS co IS 1077 : 1992(RA 2011) Common Burnt Clay Building Bricks-Specification
IS 3495 (Part 1 to 3) : 1992(RA 2011)
Method of Tests Burnt Clay Building Bricks
Part 1:Determination of Compressive Strength, (Cl 4.2.3)
Part 2:Determination of Water Absorption,(Cl 4.1.3)
Part 3: Determination of Efflorescence, (Cl 4)

Date of test: 27.02.2021 to 05.03.2021

COMPRESSIVE STRENGTH

Sl.No.	Compressive strength of individual bricks (N/mm2)	Acceptability as per IS 1077:1992, Clause 7.1
1	5.6	The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%.
2	5.9	
3	5.1	
4	5.5	
5	5.4	
Average of 5 bricks	5.5	

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Quality

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WATER ABSORPTION:

Sl.No.	Water Absorption(%)	Acceptability as per IS 1077:1992, Clause 7.2
1	10.3	The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes.
2	10.9	
3	11.5	
4	10.2	
5	10.9	
Average of 5 bricks	**10.8**	

EFFLORESCENCE:

Sl.No.	Efflorescence	Acceptability as per IS 1077:1992, Clause 7.3
1	Moderate	The efflorescence shall not be more than 'moderate" upto class 12.5 and "slight" for higher classes.
2	Moderate	
3	Moderate	
4	Moderate	
5	Moderate	

DIMENSIONS AND TOLERANCES

Sl.No.	Dimensions obtained for 20 bricks(mm)		Acceptability as per IS 1077:1992, Clause 6.2(b)
1	Length	4610	4520 to 4680 mm
2	Width	2205	2160 to 2240 mm
3	Height	1390	1360 to 1440 mm

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Job No.: CQCE/BBMP/KRG/17/2020-2021 Date 08.03.2021

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Executive Engineer, Project** Division,RR Nagara Zone, Bangalore.
Agency : **Sri. K R Govindaraju,** Contractor, Bangalore.
Name of Work Construction of Oldage Homes and other Building in JP Park in ward no.17, BBMP, Bangalore

Steel Dia/Length: 8mm,10mm,12mm,16mm,20mm,25mm" TMT"
Reference to BIS codes: IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification
IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature
Date of test: 08.03.2021

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.397	516	605	1.17	15
2	TMT	10	0.619	509	612	1.20	12
3	TMT	12	0.888	532	632	1.19	18
4	TMT	16	1.582	509	599	1.18	15
5	TMT	20	2.471	522	586	1.12	20
6	TMT	25	3.853	517	601	1.16	25

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Job No.: CQCE/BBMP/KRG/17/2020-2021 Date: 20.03.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Executive Engineer, Project** Division,RR Nagara Zone, Bangalore.
Agency	**: Sri. K R Govindaraju,** Contractor, Bangalore.
Name of the work	Construction of Oldage Homes and other Building in JP Park in ward no.17, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.03.2021	20.03.2021	8.066	526.6	23.40
2	13.03.2021	20.03.2021	8.021	509.9	22.66
3	13.03.2021	20.03.2021	8.089	496.6	22.07

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Job No.: CQCE/BBMP/KRG/17/2020-2021 Date: 20.03.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer, Project** Division,RR Nagara Zone, Bangalore.
Agency	: **Sri. K R Govindaraju,** Contractor, Bangalore.
Name of the work	Construction of Oldage Homes and other Building in JP Park in ward no.17, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.03.2021	20.03.2021	8.032	483.3	21.48
2	13.03.2021	20.03.2021	8.011	501.1	22.27
3	13.03.2021	20.03.2021	8.078	519.9	23.11

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Job No.: CQCE/BBMP/KRG/17/2020-2021 Date: 22.03.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer, Project** Division,RR Nagara Zone, Bangalore.
Agency	: **Sri. K R Govindaraju,** Contractor, Bangalore.
Name of the work	Construction of Oldage Homes and other Building in JP Park in ward no.17, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.03.2021	22.03.2021	8.065	479.9	21.33
2	15.03.2021	22.03.2021	8.145	495.5	22.02
3	15.03.2021	22.03.2021	8.066	482.2	21.43

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer, Project** Division,RR Nagara Zone, Bangalore.
Agency	: **Sri. K R Govindaraju,** Contractor, Bangalore.
Name of the work	Construction of Oldage Homes and other Building in JP Park in ward no.17, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.03.2021	22.03.2021	8.202	509.9	22.66
2	15.03.2021	22.03.2021	8.132	486.6	21.63
3	15.03.2021	22.03.2021	8.069	513.3	22.81

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Job No.: CQCE/BBMP/KRG/17/2020-2021 Date: 23.03.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer, Project** Division,RR Nagara Zone, Bangalore.
Agency	: **Sri. K R Govindaraju,** Contractor, Bangalore.
Name of the work	Construction of Oldage Homes and other Building in JP Park in ward no.17, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.03.2021	23.03.2021	8.065	516.6	22.96
2	16.03.2021	23.03.2021	8.021	489.9	21.77
3	16.03.2021	23.03.2021	8.078	493.3	21.92

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Job No.: CQCE/BBMP/KRG/17/2020-2021 Date: 23.03.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer, Project** Division,RR Nagara Zone, Bangalore.

Agency : **Sri. K R Govindaraju,** Contractor, Bangalore.

Name of the work Construction of Oldage Homes and other Building in JP Park in ward no.17, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.03.2021	23.03.2021	8.025	496.6	22.07
2	16.03.2021	23.03.2021	8.012	483.1	21.47
3	16.03.2021	23.03.2021	8.096	501.1	22.27

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Assistant Executive Engineer (Project)
Bruhat Bangal[illegible]nagar Palike
Rajarajeshwari Nagar Zone

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
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NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory

Job No.: CQCE/BBMP/KRG/17/2020-2021 Date: 24.03.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: Executive Engineer, Project Division,RR Nagara Zone, Bangalore.
Agency	: Sri. K R Govindaraju, Contractor, Bangalore.
Name of the work	Construction of Oldage Homes and other Building in JP Park in ward no.17, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.03.2021	24.03.2021	8.098	506.6	22.52
2	17.03.2021	24.03.2021	8.025	521.1	23.16
3	17.03.2021	24.03.2021	8.014	506.6	22.52

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Job No.: CQCE/BBMP/KRG/17/2020-2021 Date: 24.03.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer, Project** Division,RR Nagara Zone, Bangalore.
Agency	: **Sri. K R Govindaraju,** Contractor, Bangalore.
Name of the work	Construction of Oldage Homes and other Building in JP Park in ward no.17, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.03.2021	24.03.2021	8.157	546.2	24.28
2	17.03.2021	24.03.2021	8.198	528.9	23.51
3	17.03.2021	24.03.2021	8.032	534.1	23.74

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Job No.: CQCE/BBMP/KRG/17/2020-2021 Date: 25.03.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer, Project** Division,RR Nagara Zone, Bangalore.
Agency	: **Sri. K R Govindaraju,** Contractor, Bangalore.
Name of the work	Construction of Oldage Homes and other Building in JP Park in ward no.17, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.03.2021	25.03.2021	8.024	532.9	23.68
2	18.03.2021	25.03.2021	8.179	528.7	23.50
3	18.03.2021	25.03.2021	8.215	516.2	22.94

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Job No.: CQCE/BBMP/KRG/17/2020-2021 Date: 25.03.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer, Project** Division,RR Nagara Zone, Bangalore.
Agency : **Sri. K R Govindaraju,** Contractor, Bangalore.
Name of the work : Construction of Oldage Homes and other Building in JP Park in ward no.17, BBMP, Bangalore
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{30}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.03.2021	25.03.2021	8.157	513.9	22.84
2	18.03.2021	25.03.2021	8.198	529.3	23.52
3	18.03.2021	25.03.2021	8.028	527.1	23.43

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Job No.: CQCE/BBMP/KRG/17/2020-2021 Date: 26.03.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Executive Engineer, Project Division,RR Nagara Zone, Bangalore.

Agency : Sri. K R Govindaraju, Contractor, Bangalore.

Name of the work Construction of Oldage Homes and other Building in JP Park in ward no.17, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.03.2021	26.03.2021	8.021	528.9	23.51
2	19.03.2021	26.03.2021	8.148	531.4	23.62
3	19.03.2021	26.03.2021	8.136	516.7	22.96

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Job No.: CQCE/BBMP/KRG/17/2020-2021 Date: 26.03.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: Executive Engineer, Project Division,RR Nagara Zone, Bangalore.
Agency	: Sri. K R Govindaraju, Contractor, Bangalore.
Name of the work	Construction of Oldage Homes and other Building in JP Park in ward no.17, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.03.2021	26.03.2021	8.154	531.4	23.62
2	19.03.2021	26.03.2021	8.179	529.7	23.54
3	19.03.2021	26.03.2021	8.066	527.1	23.43

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Job No.: CQCE/BBMP/KRG/17/2020-2021 Date: 27.03.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer, Project** Division,RR Nagara Zone, Bangalore.
Agency	: **Sri. K R Govindaraju,** Contractor, Bangalore.
Name of the work	Construction of Oldage Homes and other Building in JP Park in ward no.17, BBMP, Bangalore
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{30}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.03.2021	27.03.2021	8.033	501.1	22.27
2	20.03.2021	27.03.2021	8.085	519.9	23.11
3	20.03.2021	27.03.2021	8.090	489.9	21.77

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